

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078259.D
 Acq On : 16 Jun 2023 14:53
 Operator : JC\MD
 Sample : 03317-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 17 02:23:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

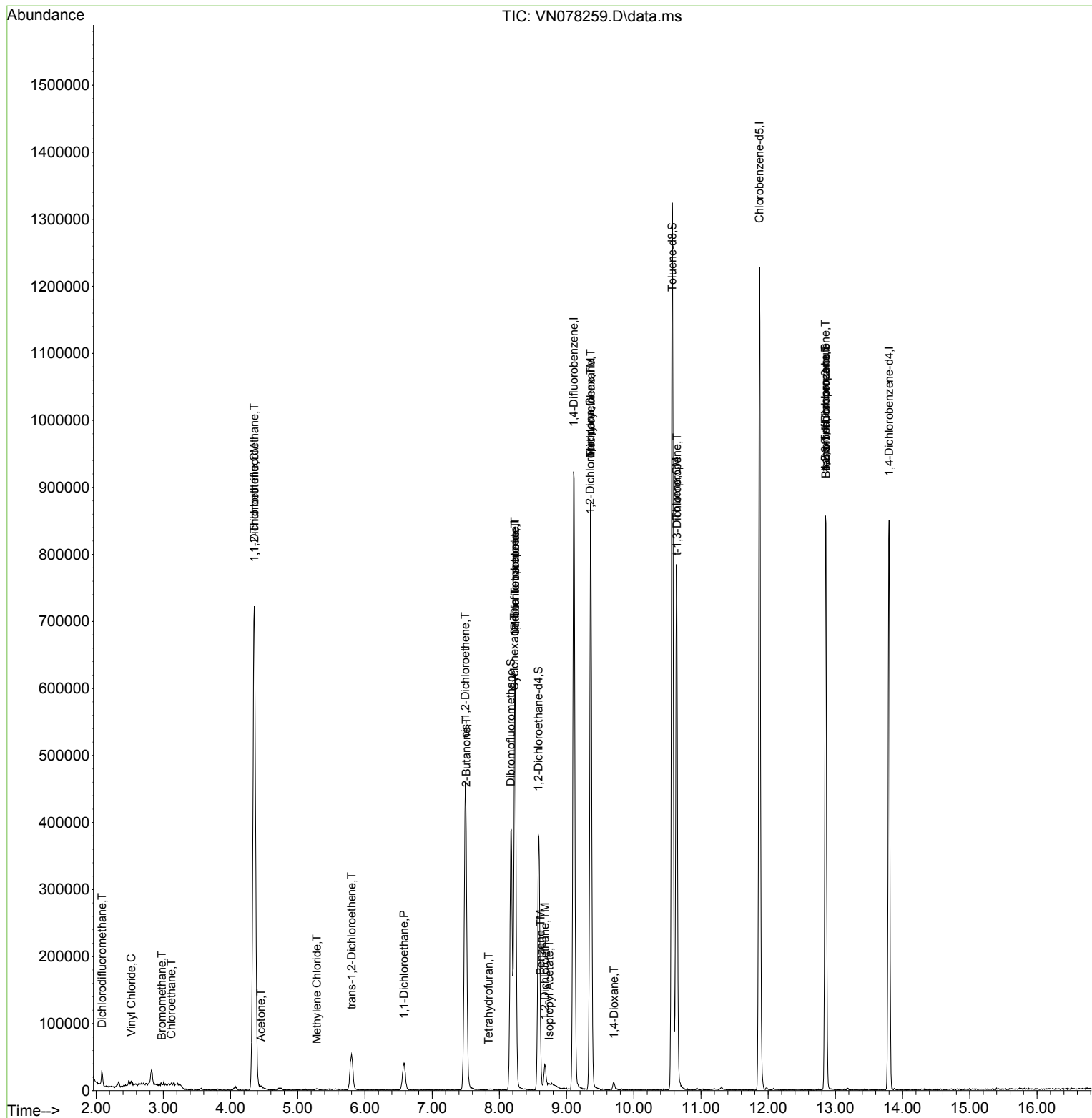
Internal Standards						
1) Pentafluorobenzene	8.229	168	444972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	819283	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	726254	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	233550	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	315040	53.101	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.200%	
35) Dibromofluoromethane	8.171	113	286093	55.228	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.460%	
50) Toluene-d8	10.570	98	955935	47.868	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.740%	
62) 4-Bromofluorobenzene	12.853	95	299751	48.283	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.560%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.089	85	1415	0.281	ug/l #	69
3) Chloromethane	2.371	50	1230	Below Cal		91
4) Vinyl Chloride	2.524	62	3691	0.560	ug/l #	85
5) Bromomethane	2.977	94	1179	0.237	ug/l #	57
6) Chloroethane	3.118	64	1615	0.360	ug/l #	43
9) 1,1,2-Trichlorotrifluo...	4.353	101	1117	0.237	ug/l #	38
12) 1,1-Dichloroethene	4.353	96	426013	87.673	ug/l	89
16) Acetone	4.453	43	4293	2.514	ug/l #	76
20) Methylene Chloride	5.283	84	1299	0.230	ug/l #	63
21) trans-1,2-Dichloroethene	5.800	96	34719	6.625	ug/l	93
24) 1,1-Dichloroethane	6.583	63	56723	6.163	ug/l	96
25) 2-Butanone	7.506	43	2085	0.794	ug/l #	1
27) cis-1,2-Dichloroethene	7.494	96	284269	45.473	ug/l	96
29) Tetrahydrofuran	7.841	42	390	0.222	ug/l #	86
31) Cyclohexane	8.224	56	10720	1.409	ug/l #	46
36) 1,1-Dichloropropene	8.235	75	39666	5.338	ug/l #	48
38) Carbon Tetrachloride	8.235	117	48320	6.159	ug/l #	15
39) Methylcyclohexane	9.359	83	4636	0.602	ug/l #	4
40) Benzene	8.612	78	5205	0.235	ug/l	92
42) 1,2-Dichloroethane	8.677	62	33585	4.416	ug/l	98
43) Isopropyl Acetate	8.741	43	8316	0.749	ug/l #	49
44) Trichloroethene	9.359	130	310684	53.033	ug/l	95
45) 1,2-Dichloropropane	9.353	63	1113	0.202	ug/l #	1
49) 1,4-Dioxane	9.706	88	8558	87.403	ug/l #	94
52) Toluene	10.635	92	338480	24.167	ug/l	94
53) t-1,3-Dichloropropene	10.641	75	4632	0.589	ug/l #	1
71) Bromoform	12.859	173	2348	0.636	ug/l #	1
75) 1,1,1,2,2-Tetrachloroethane	12.941	83	56	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	164682	29.827	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	164682	91.638	ug/l #	15

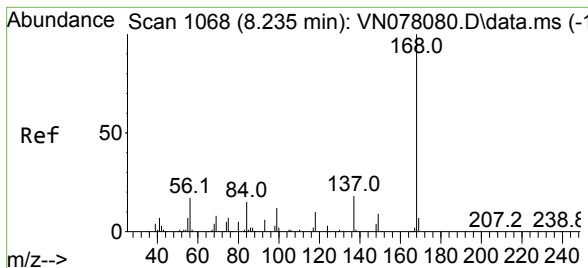
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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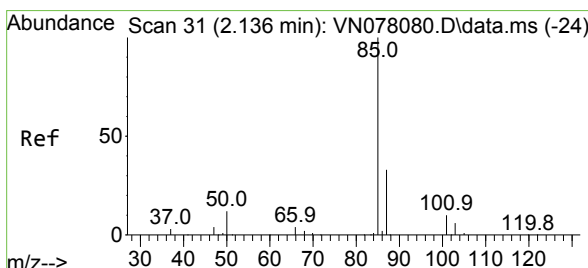
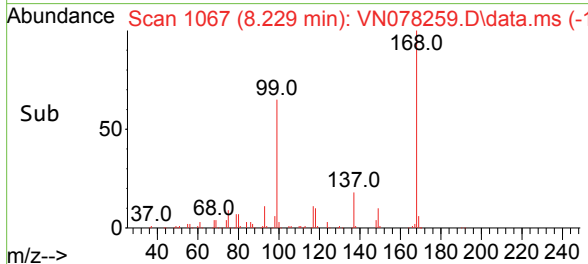
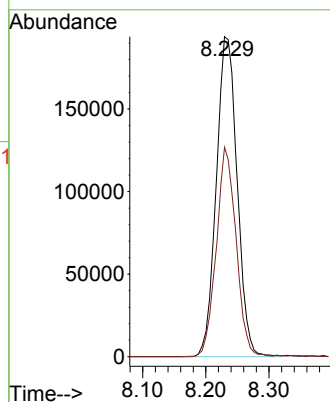
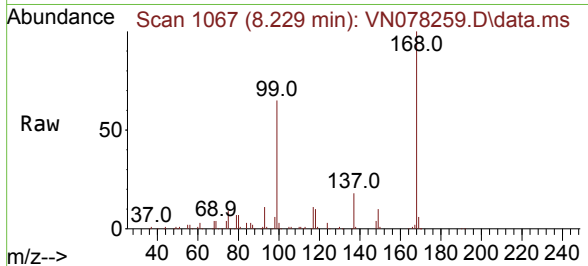




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

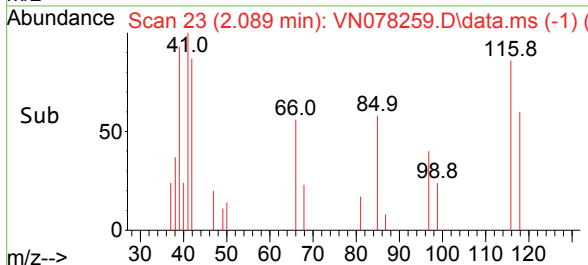
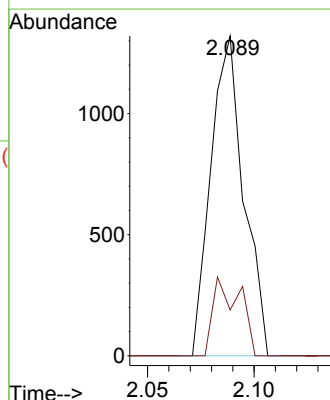
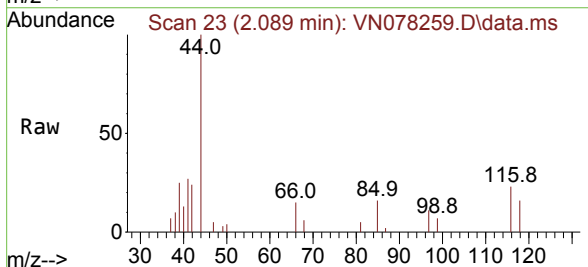
Instrument :
MSVOA_N
ClientSampleId :

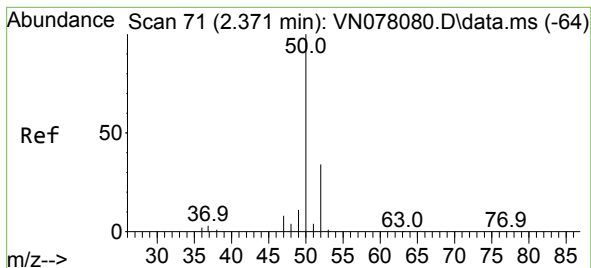
Tgt Ion:168 Resp: 444972
Ion Ratio Lower Upper
168 100
99 65.5 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.281 ug/l
RT: 2.089 min Scan# 23
Delta R.T. -0.047 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 85 Resp: 1415
Ion Ratio Lower Upper
85 100
87 14.3 15.8 47.4#





#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

Instrument :

MSVOA_N

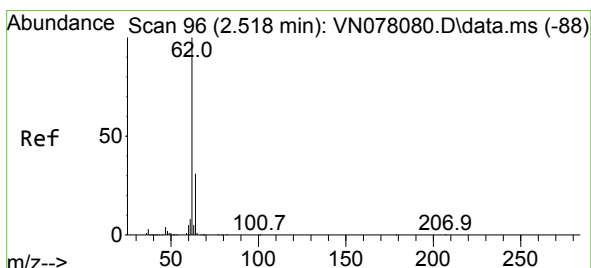
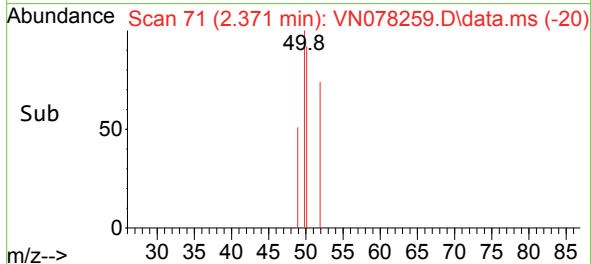
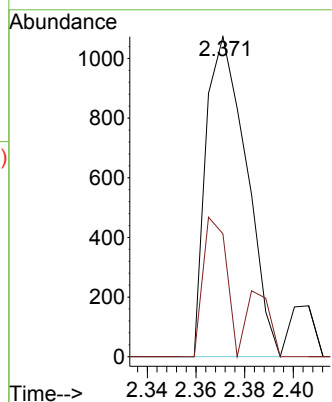
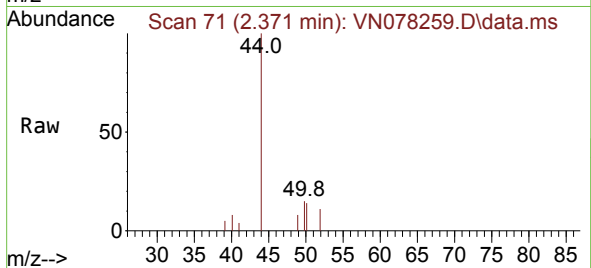
ClientSampleId :

Tgt Ion: 50 Resp: 1230

Ion Ratio Lower Upper

50 100

52 38.4 26.5 39.7



#4

Vinyl Chloride

Concen: 0.560 ug/l

RT: 2.524 min Scan# 97

Delta R.T. 0.006 min

Lab File: VN078259.D

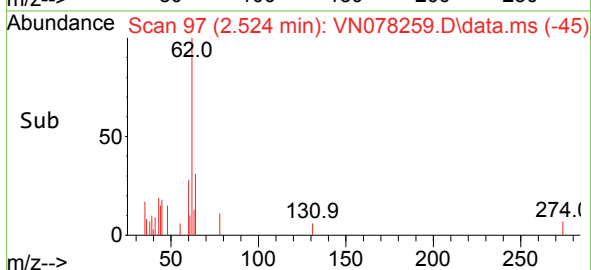
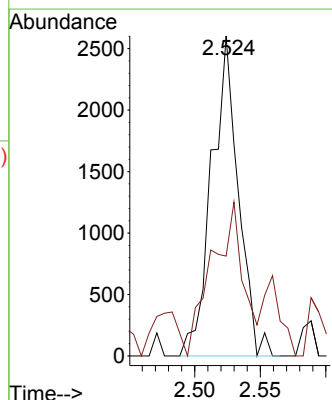
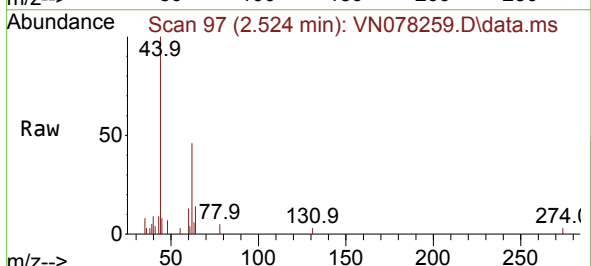
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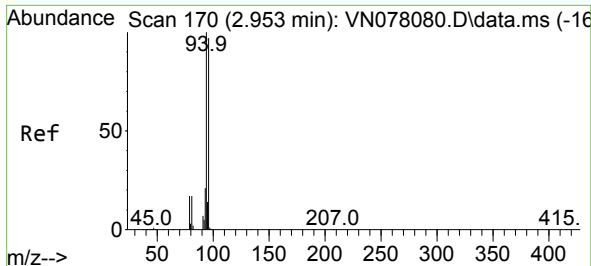
Tgt Ion: 62 Resp: 3691

Ion Ratio Lower Upper

62 100

64 24.2 26.2 39.2#

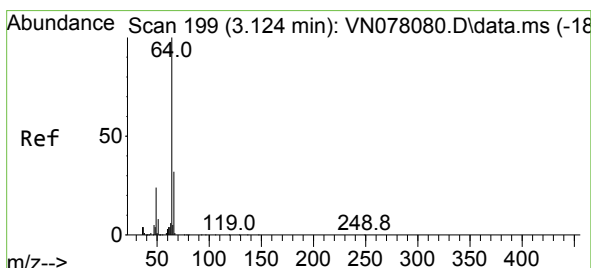
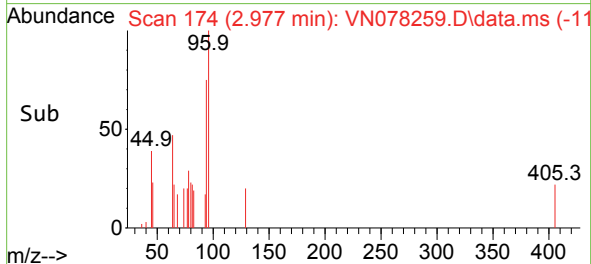
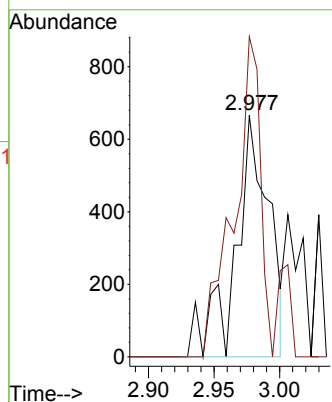
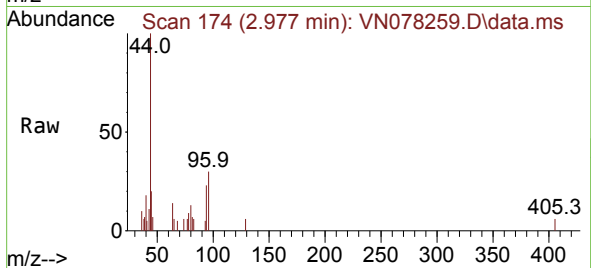




#5
Bromomethane
Concen: 0.237 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

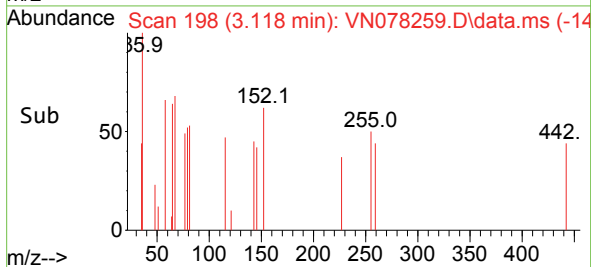
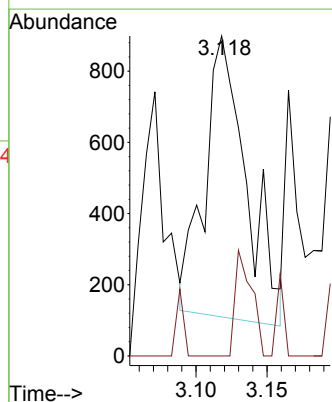
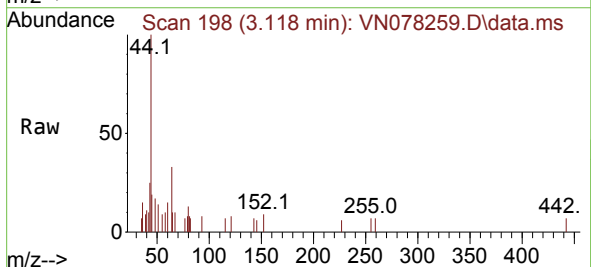
Instrument :
MSVOA_N
ClientSampleId :

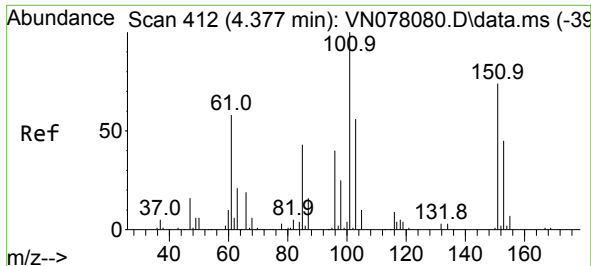
Tgt Ion: 94 Resp: 1179
Ion Ratio Lower Upper
94 100
96 132.6 73.1 109.7#



#6
Chloroethane
Concen: 0.360 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 64 Resp: 1615
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

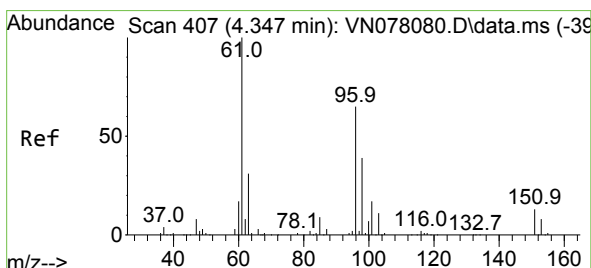
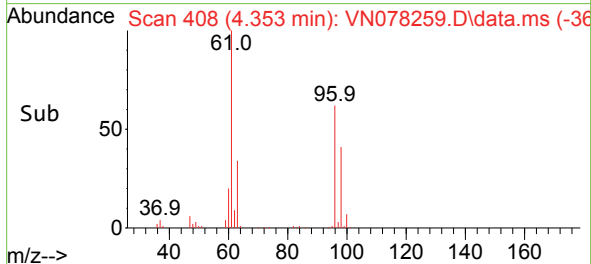
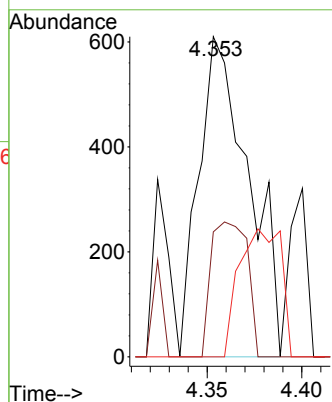
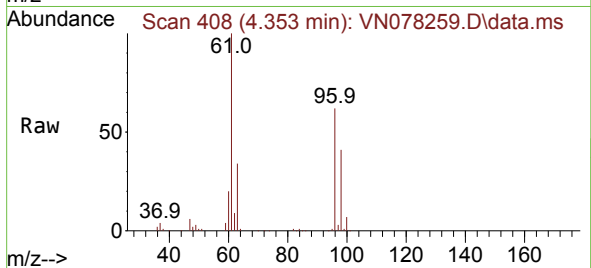




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.237 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.024 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

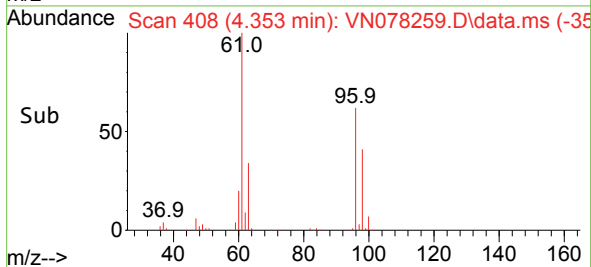
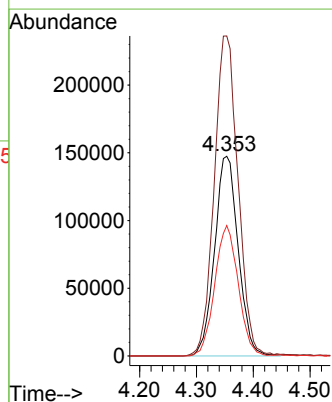
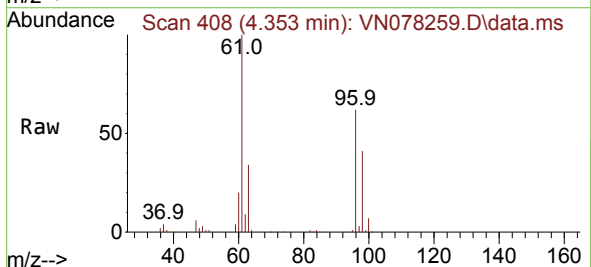
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ClientSampleId :

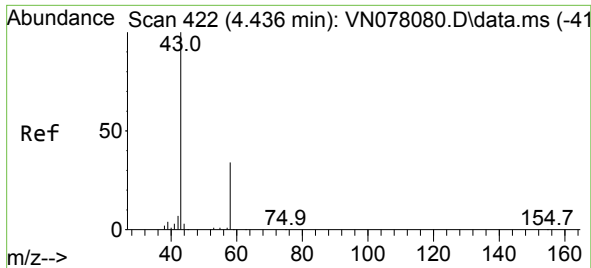
Tgt Ion:101 Resp: 1117
Ion Ratio Lower Upper
101 100
85 30.6 36.6 55.0#
151 0.0 57.6 86.4#



#12
1,1-Dichloroethene
Concen: 87.673 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 96 Resp: 426013
Ion Ratio Lower Upper
96 100
61 160.2 112.7 169.1
98 65.3 51.2 76.8

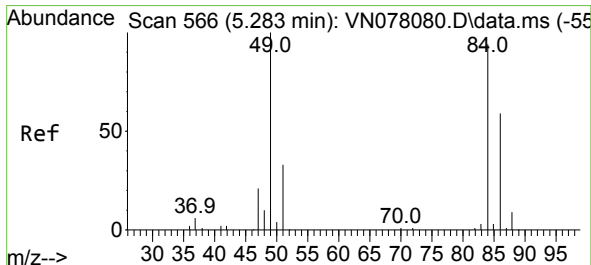
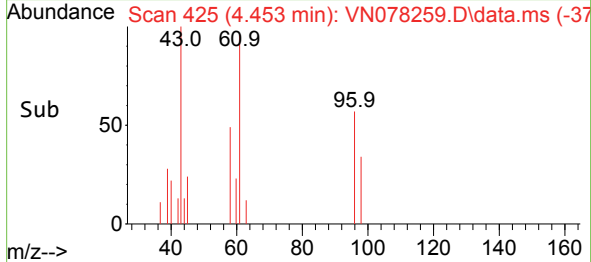
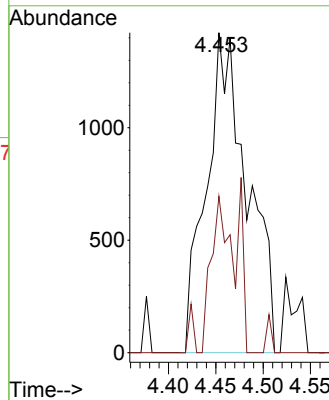
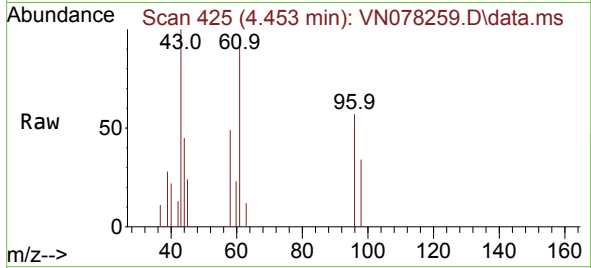




#16
Acetone
Concen: 2.514 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

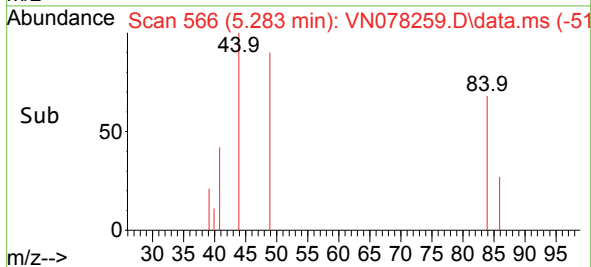
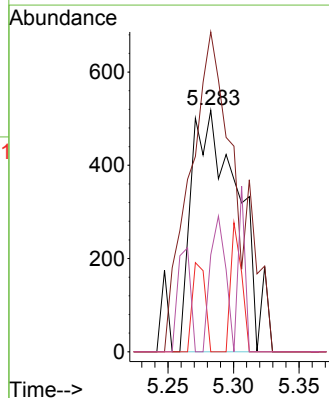
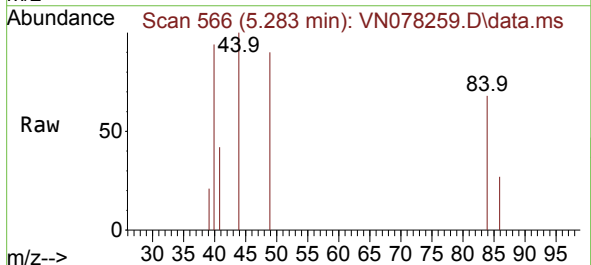
Instrument :
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ClientSampleId :

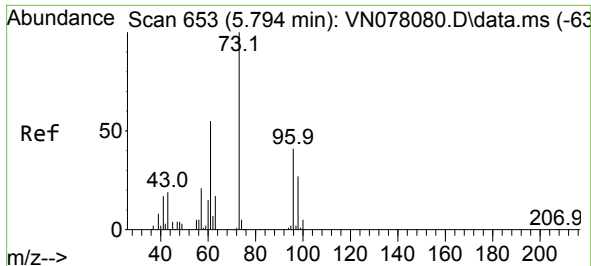
Tgt Ion: 43 Resp: 4293
Ion Ratio Lower Upper
43 100
58 48.8 28.0 42.0#



#20
Methylene Chloride
Concen: 0.230 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 84 Resp: 1299
Ion Ratio Lower Upper
84 100
49 132.4 79.7 119.5#
51 0.0 25.2 37.8#
86 40.2 53.3 79.9#

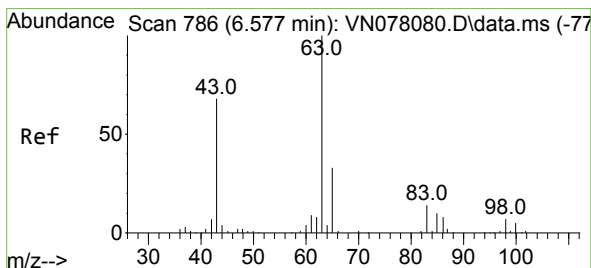
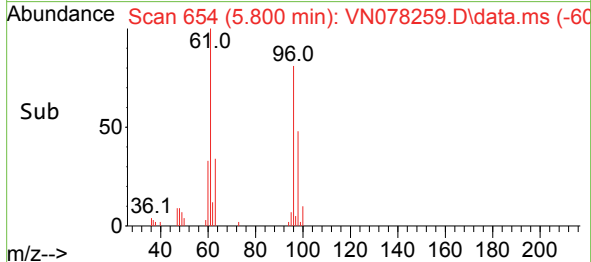
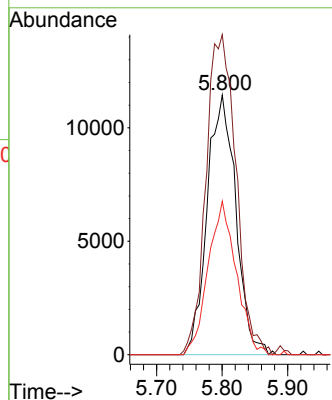
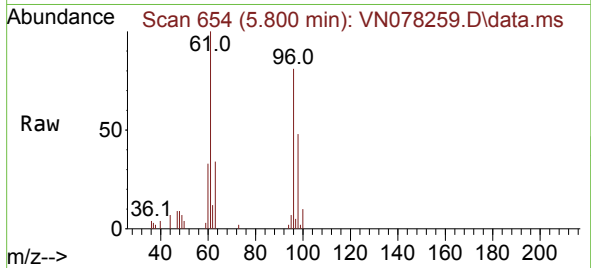




#21
trans-1,2-Dichloroethene
Concen: 6.625 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

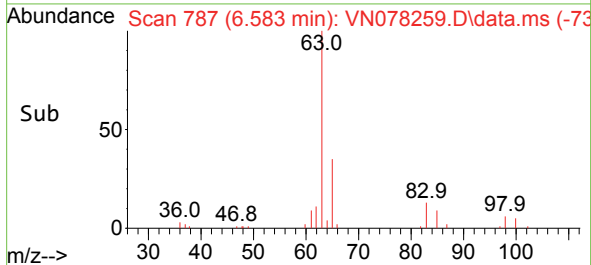
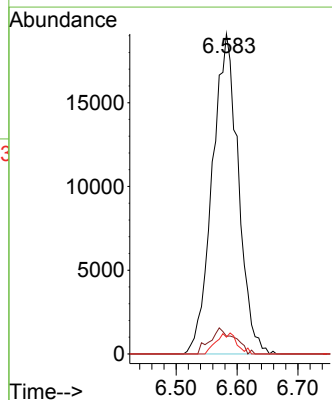
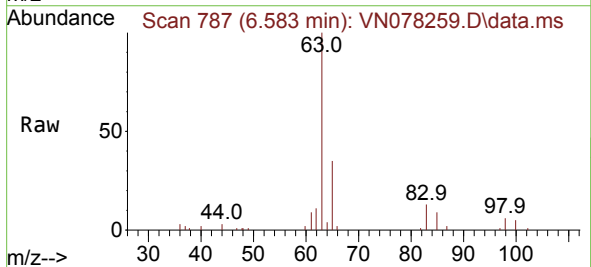
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MSVOA_N
ClientSampleId :

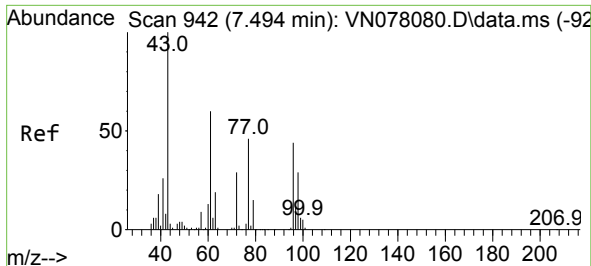
Tgt Ion: 96 Resp: 34719
Ion Ratio Lower Upper
96 100
61 123.2 90.1 135.1
98 59.1 46.4 69.6



#24
1,1-Dichloroethane
Concen: 6.163 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 63 Resp: 56723
Ion Ratio Lower Upper
63 100
98 5.6 3.9 11.7
100 5.3 2.5 7.4

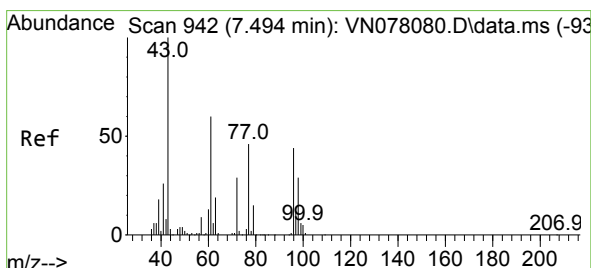
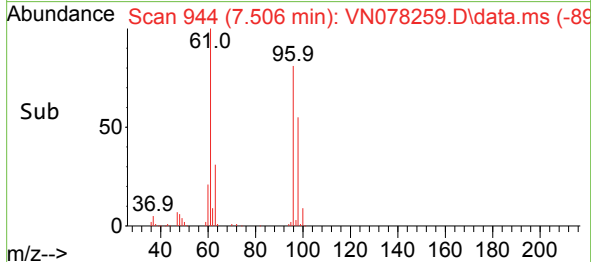
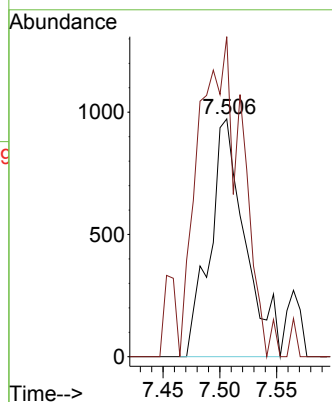
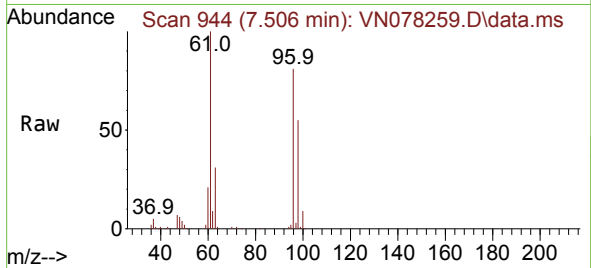




#25
2-Butanone
Concen: 0.794 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

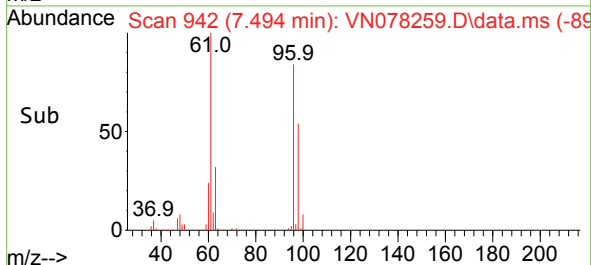
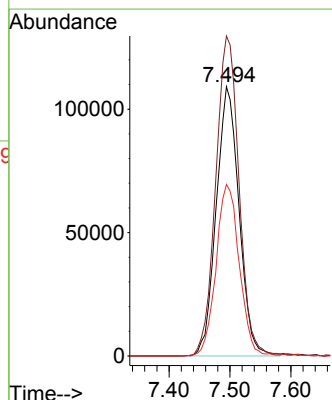
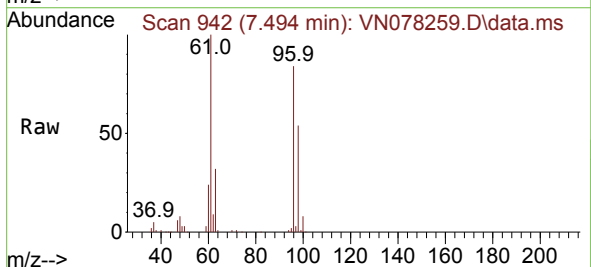
Instrument :
MSVOA_N
ClientSampleId :

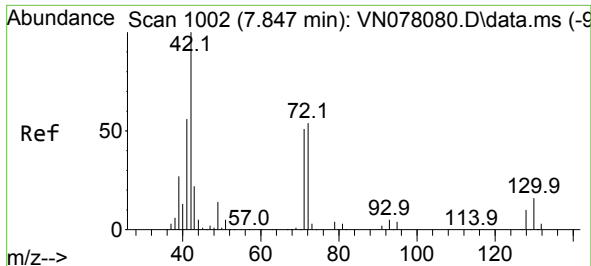
Tgt Ion: 43 Resp: 2085
Ion Ratio Lower Upper
43 100
72 134.5 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 45.473 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 96 Resp: 284269
Ion Ratio Lower Upper
96 100
61 121.1 0.0 255.2
98 64.6 0.0 128.8





#29

Tetrahydrofuran

Concen: 0.222 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. -0.006 min

Lab File: VN078259.D

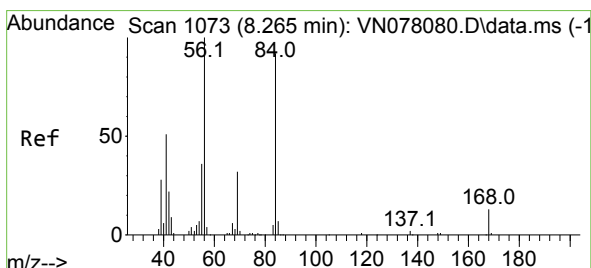
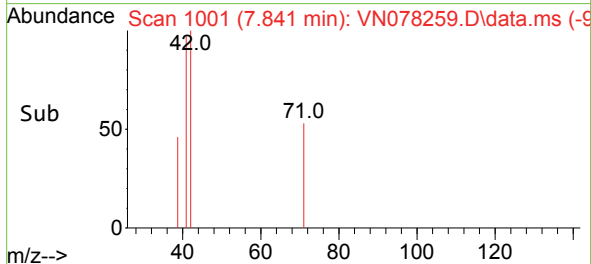
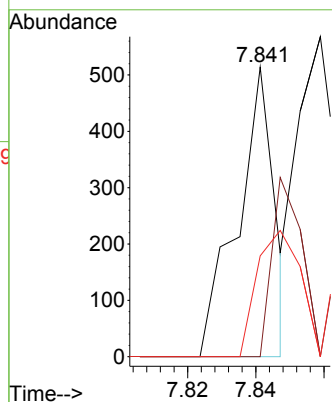
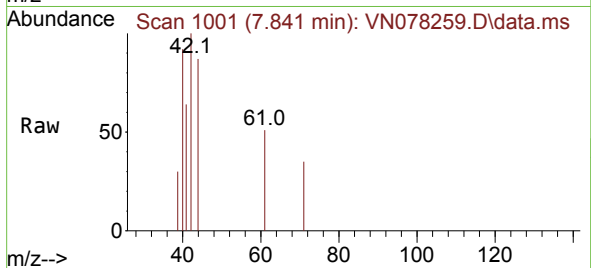
Acq: 16 Jun 2023 14:53

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	42	Resp:	390
Ion	Ratio	Lower	Upper
42	100		
72	49.2	49.8	74.6#
71	51.0	47.4	71.2



#31

Cyclohexane

Concen: 1.409 ug/l

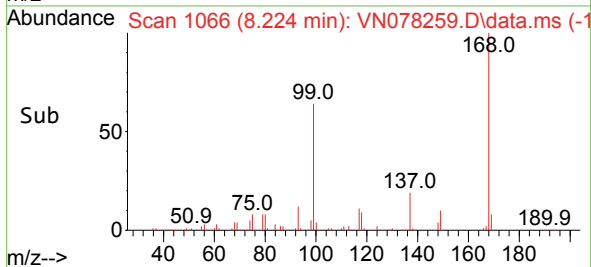
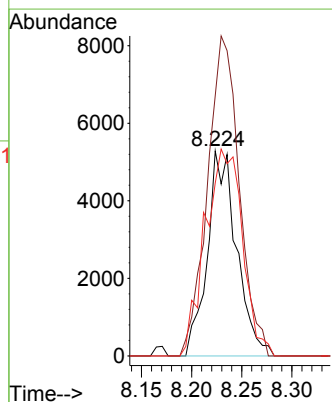
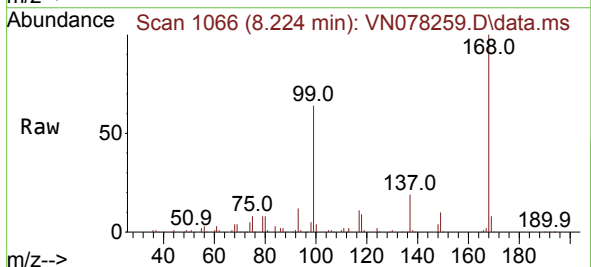
RT: 8.224 min Scan# 1066

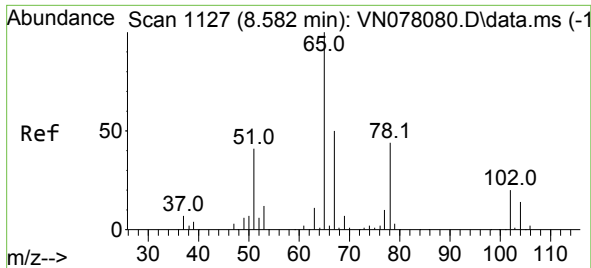
Delta R.T. -0.041 min

Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

Tgt Ion:	56	Resp:	10720
Ion	Ratio	Lower	Upper
56	100		
69	127.0	26.8	40.2#
84	84.4	81.8	122.6

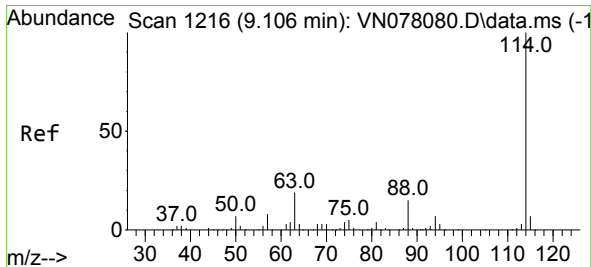
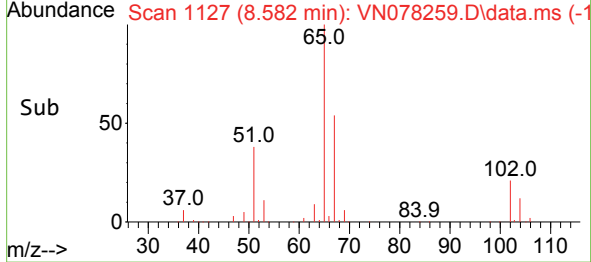
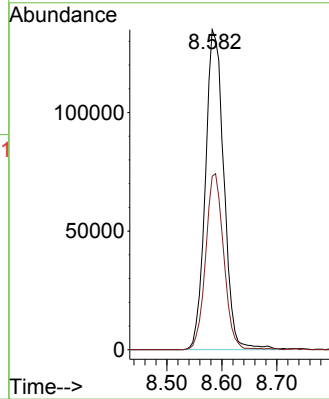
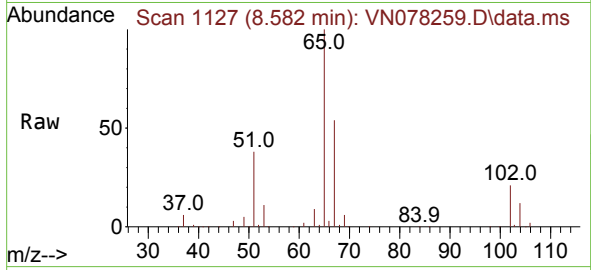




#33
1,2-Dichloroethane-d4
Concen: 53.101 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

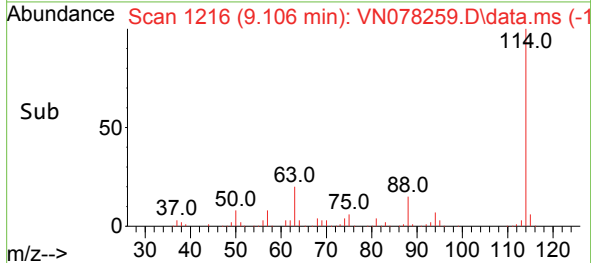
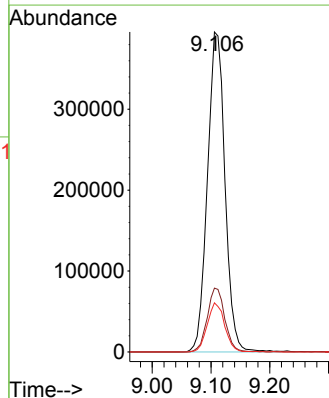
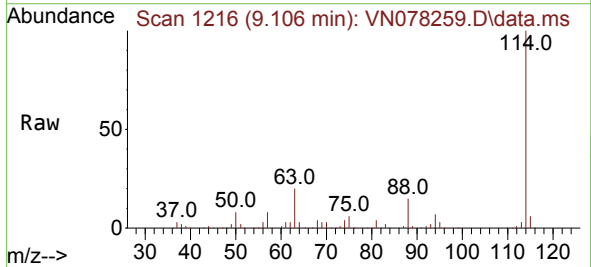
Instrument :
MSVOA_N
ClientSampleId :

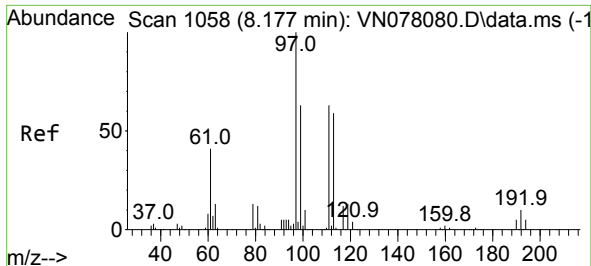
Tgt Ion: 65 Resp: 315040
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

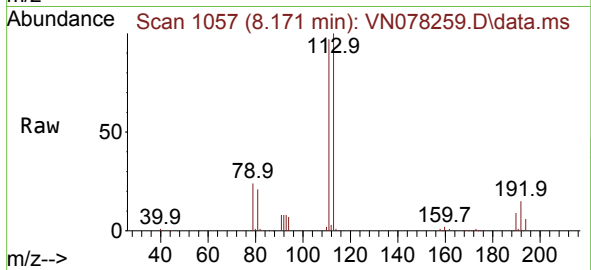
Tgt Ion: 114 Resp: 819283
Ion Ratio Lower Upper
114 100
63 19.9 0.0 36.4
88 15.3 0.0 30.6



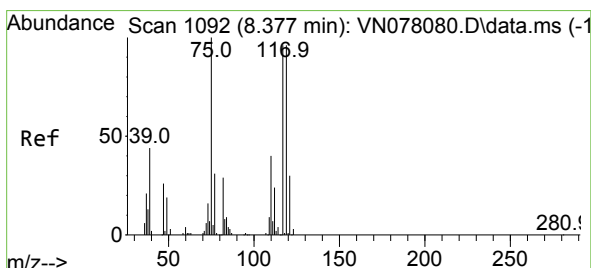
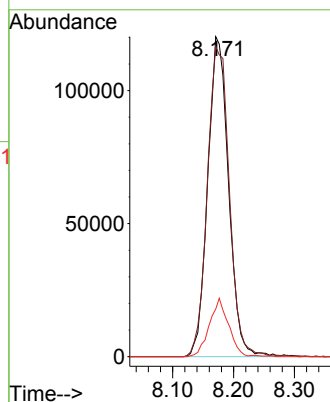
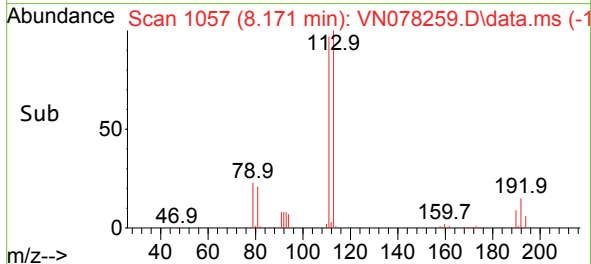


#35
Dibromofluoromethane
Concen: 55.228 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

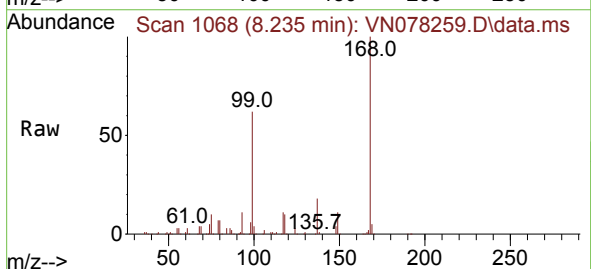
Instrument :
MSVOA_N
ClientSampleId :



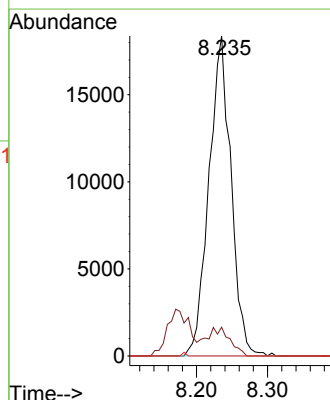
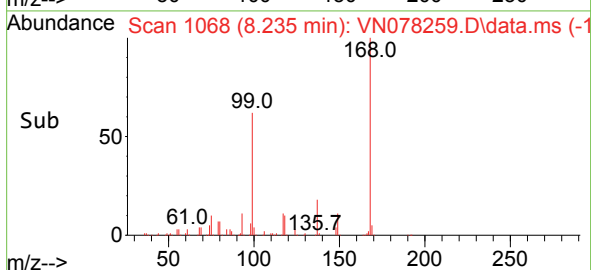
Tgt Ion:113 Resp: 286093
Ion Ratio Lower Upper
113 100
111 102.0 82.6 123.8
192 17.0 12.7 19.1

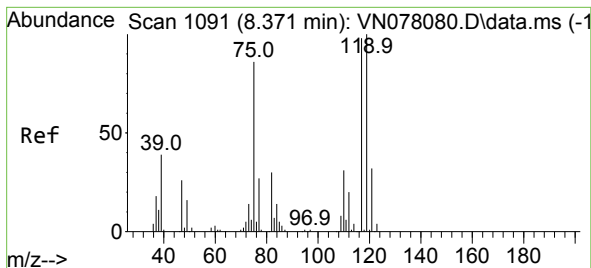


#36
1,1-Dichloropropene
Concen: 5.338 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53



Tgt Ion: 75 Resp: 39666
Ion Ratio Lower Upper
75 100
110 8.8 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.159 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.135 min

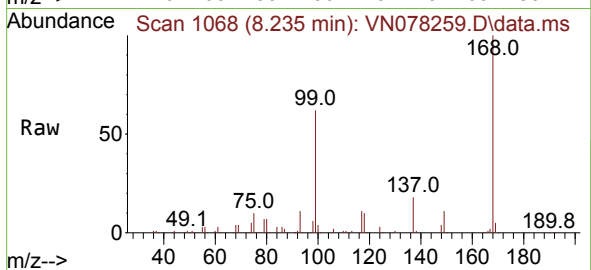
Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

Instrument :

MSVOA_N

ClientSampleId :



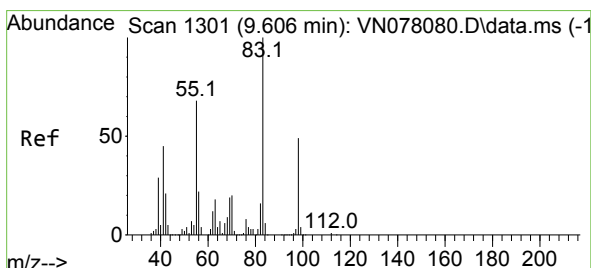
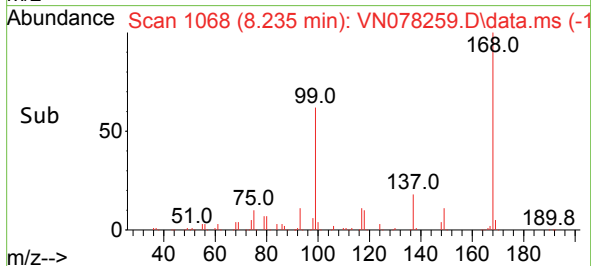
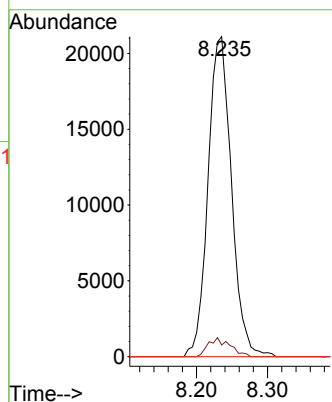
Tgt Ion:117 Resp: 48320

Ion Ratio Lower Upper

117 100

119 3.6 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.602 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.247 min

Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

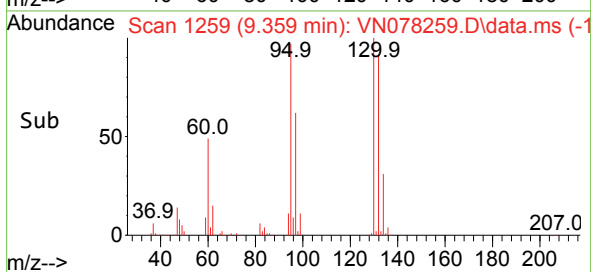
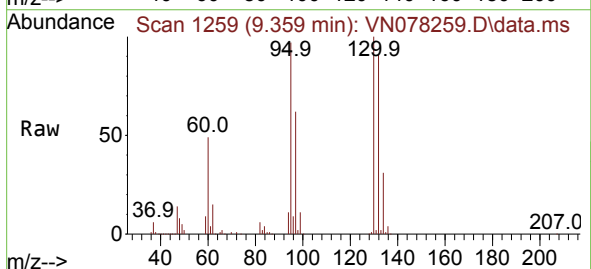
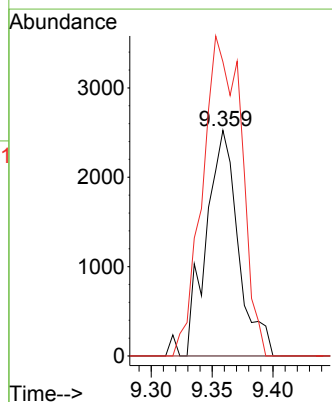
Tgt Ion: 83 Resp: 4636

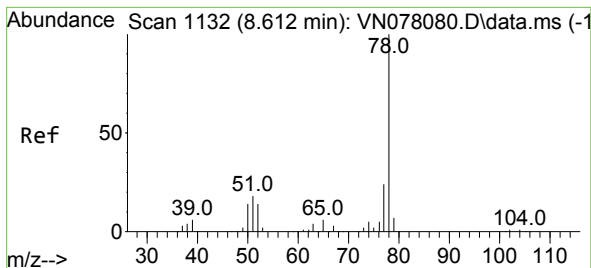
Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 130.4 40.6 61.0#





#40

Benzene

Concen: 0.235 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

Instrument :

MSVOA_N

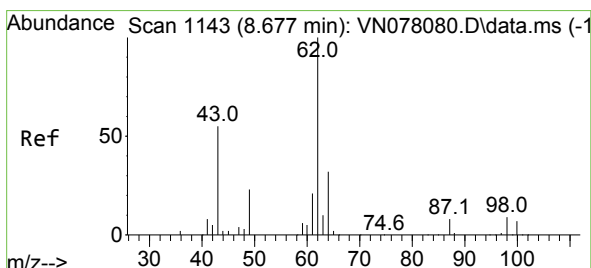
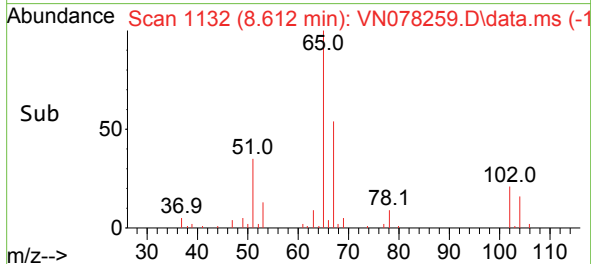
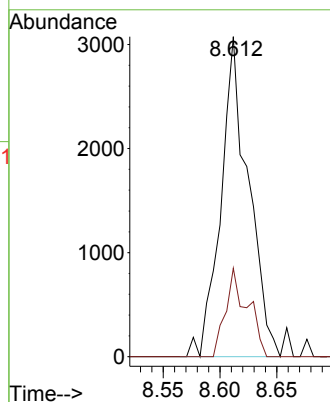
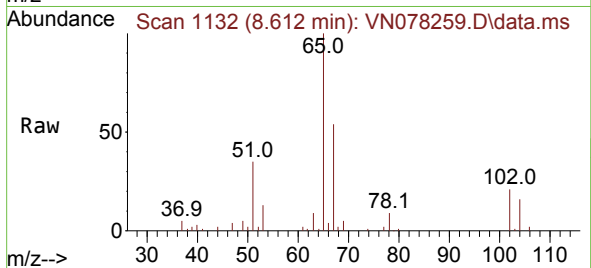
ClientSampleId :

Tgt Ion: 78 Resp: 5205

Ion Ratio Lower Upper

78 100

77 27.6 19.0 28.6



#42

1,2-Dichloroethane

Concen: 4.416 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN078259.D

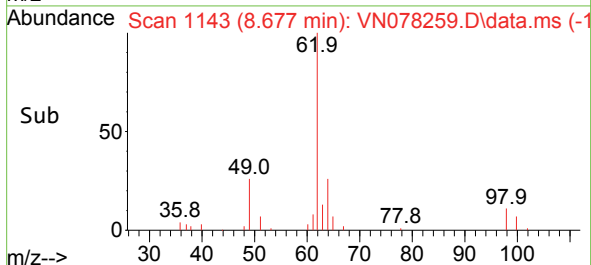
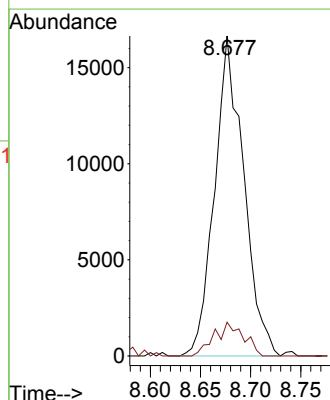
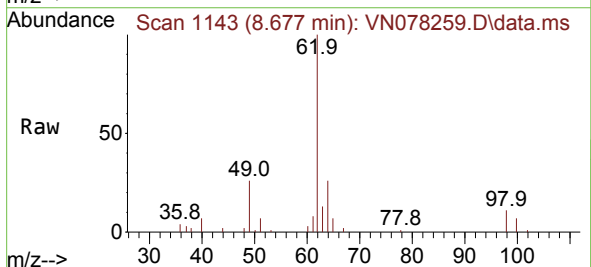
Acq: 16 Jun 2023 14:53

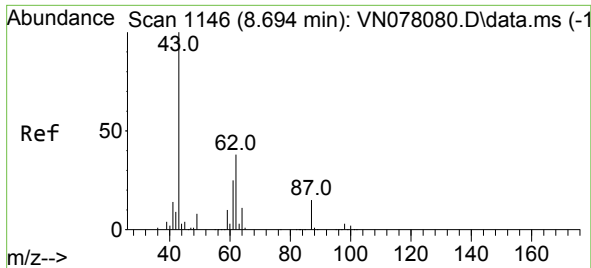
Tgt Ion: 62 Resp: 33585

Ion Ratio Lower Upper

62 100

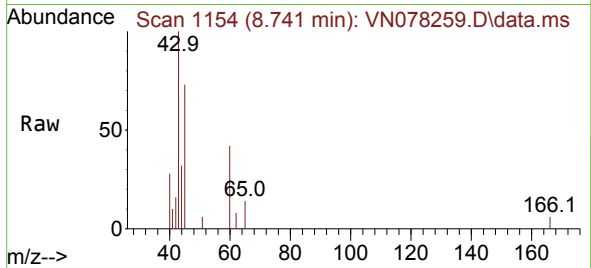
98 10.6 0.0 19.8



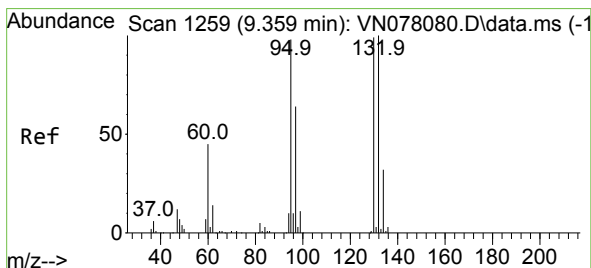
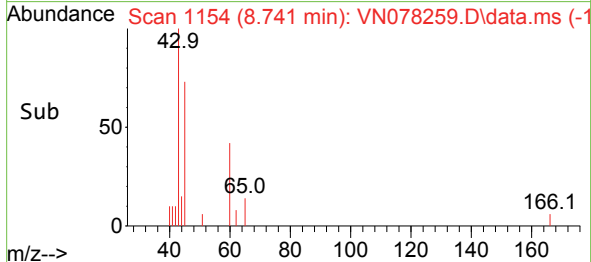
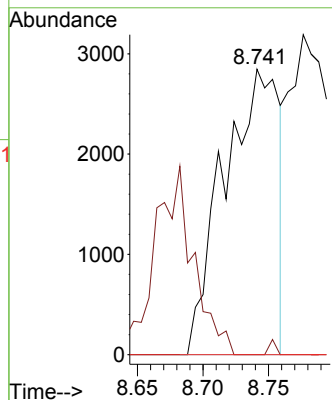


#43
Isopropyl Acetate
Concen: 0.749 ug/l
RT: 8.741 min Scan# 1146
Delta R.T. 0.047 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :

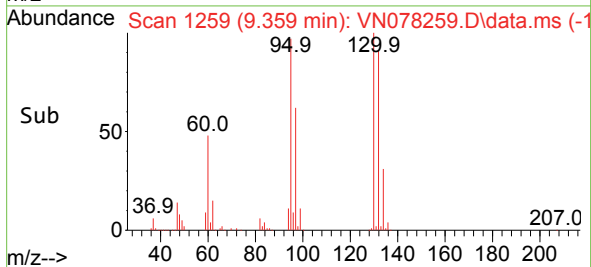
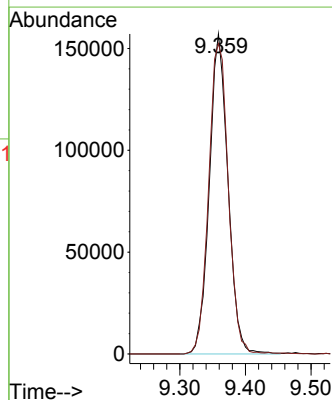
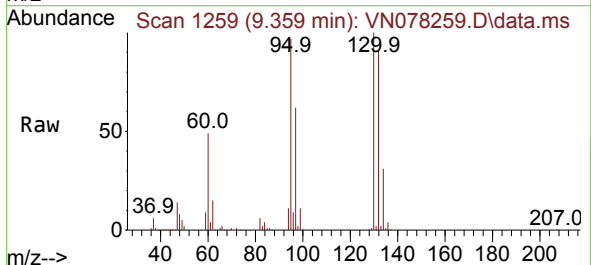


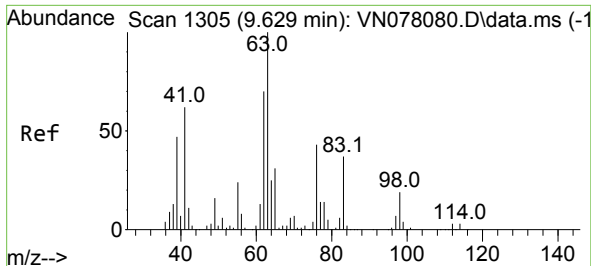
Tgt Ion: 43 Resp: 8316
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#44
Trichloroethene
Concen: 53.033 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion:130 Resp: 310684
Ion Ratio Lower Upper
130 100
95 97.0 0.0 204.6

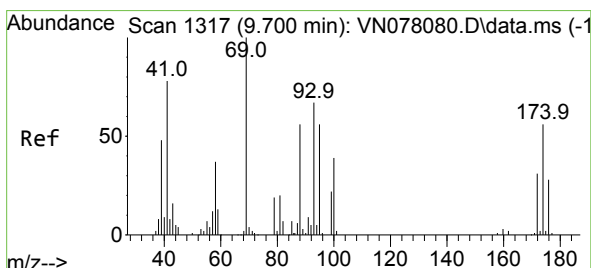
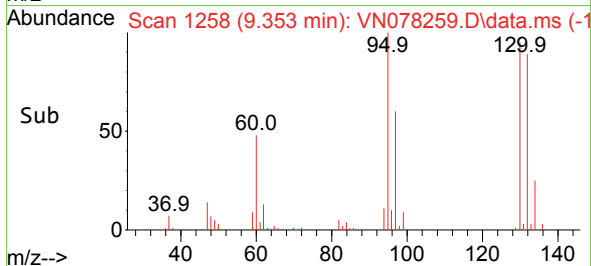
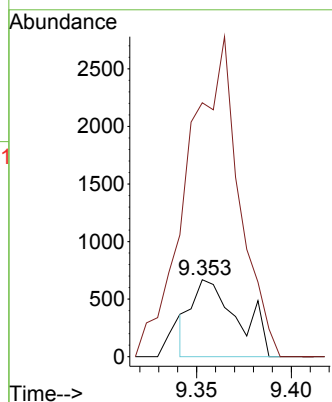
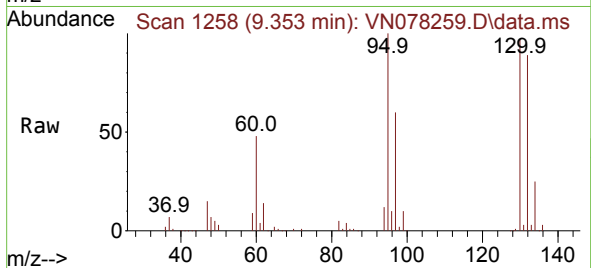




#45
1,2-Dichloropropane
Concen: 0.202 ug/l
RT: 9.353 min Scan# 1113
Delta R.T. -0.277 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

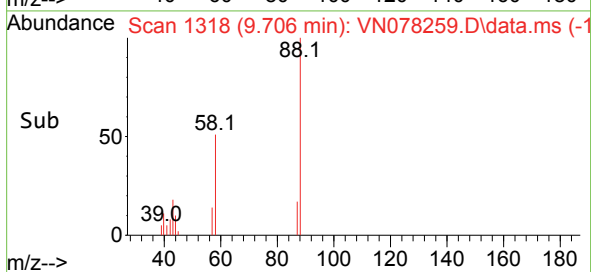
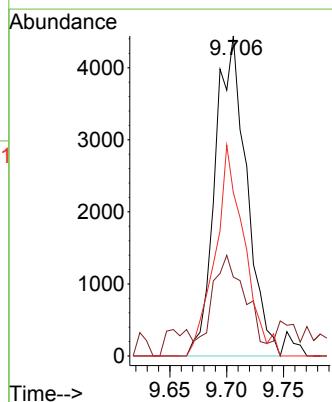
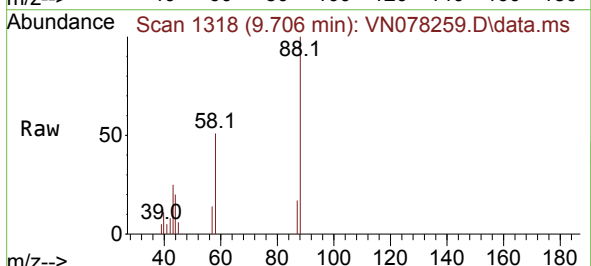
Instrument :
MSVOA_N
ClientSampleId :

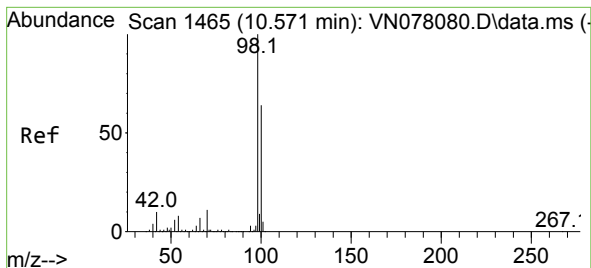
Tgt Ion: 63 Resp: 1113
Ion Ratio Lower Upper
63 100
65 330.1 23.9 35.9#



#49
1,4-Dioxane
Concen: 87.403 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 88 Resp: 8558
Ion Ratio Lower Upper
88 100
43 27.9 17.0 25.6#
58 61.1 47.0 70.4

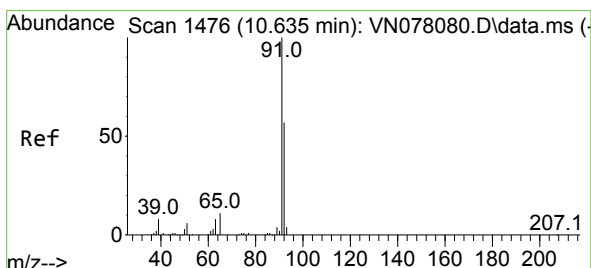
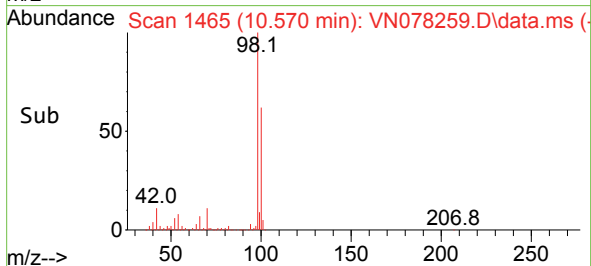
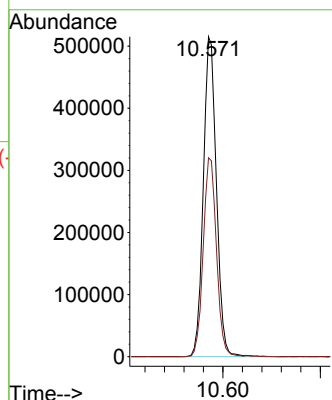
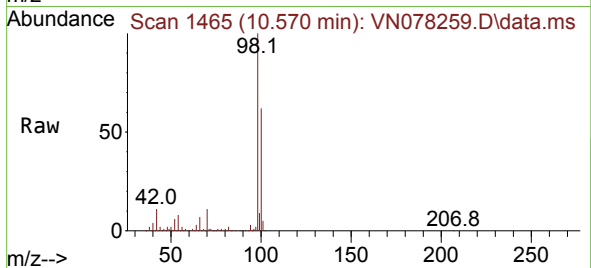




#50
Toluene-d8
Concen: 47.868 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

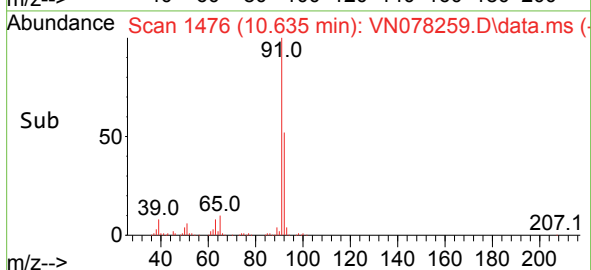
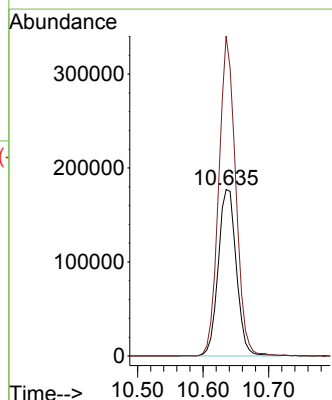
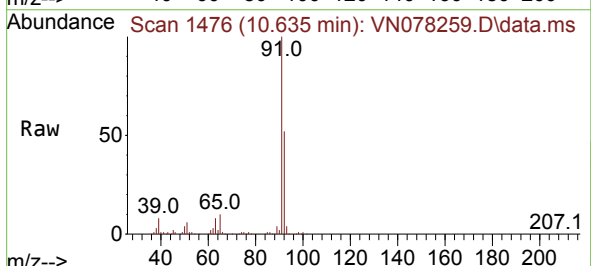
Instrument :
MSVOA_N
ClientSampleId :

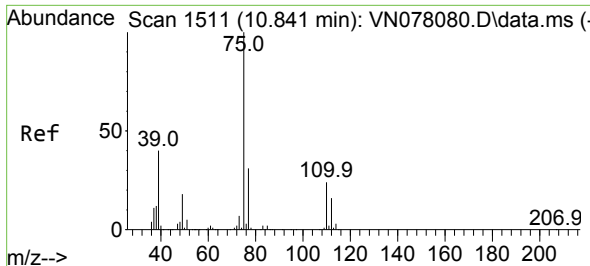
Tgt Ion: 98 Resp: 955935
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0



#52
Toluene
Concen: 24.167 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 92 Resp: 338480
Ion Ratio Lower Upper
92 100
91 180.1 137.4 206.0

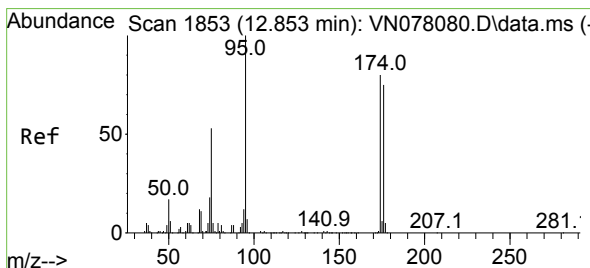
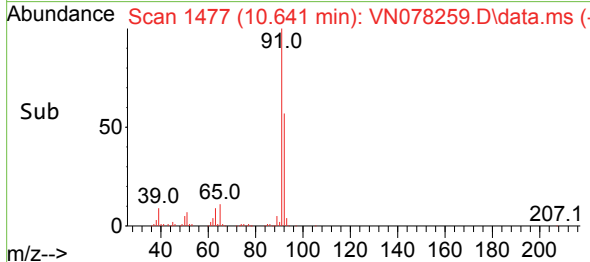
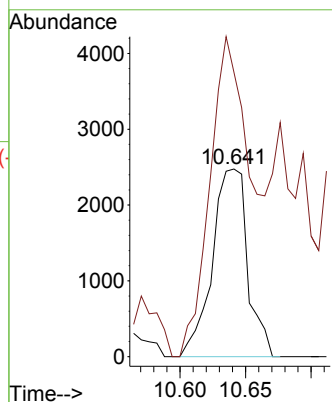
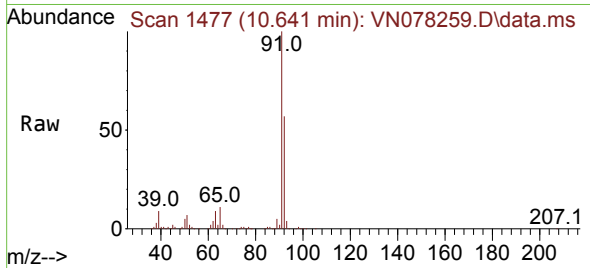




#53
 t-1,3-Dichloropropene
 Concen: 0.589 ug/l
 RT: 10.641 min Scan# 14
 Delta R.T. -0.200 min
 Lab File: VN078259.D
 Acq: 16 Jun 2023 14:53

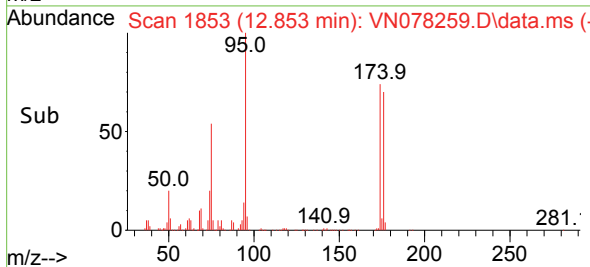
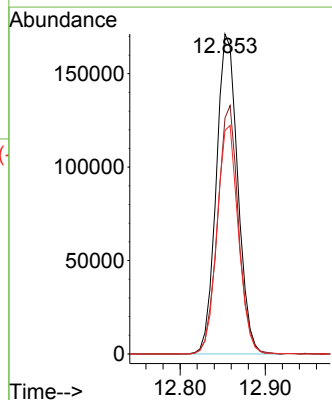
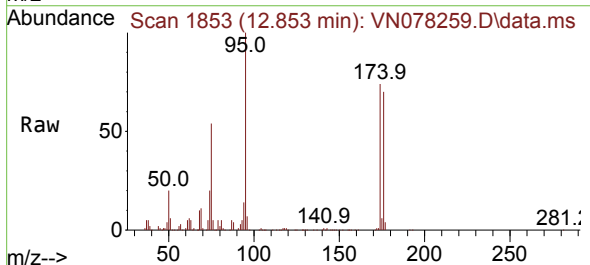
Instrument :
 MSVOA_N
 ClientSampleId :

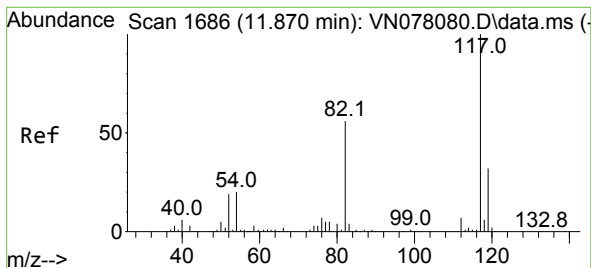
Tgt Ion: 75 Resp: 4632
 Ion Ratio Lower Upper
 75 100
 77 151.6 25.4 38.0#



#62
 4-Bromofluorobenzene
 Concen: 48.283 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078259.D
 Acq: 16 Jun 2023 14:53

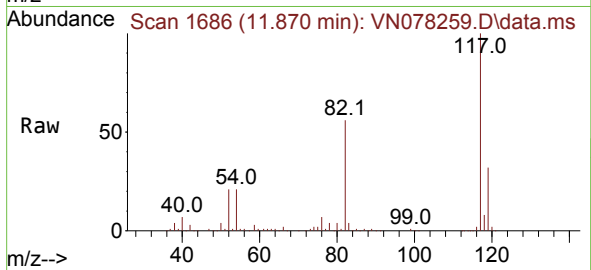
Tgt Ion: 95 Resp: 299751
 Ion Ratio Lower Upper
 95 100
 174 75.4 0.0 143.8
 176 71.2 0.0 135.8



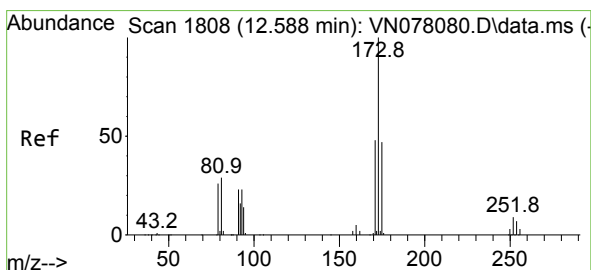
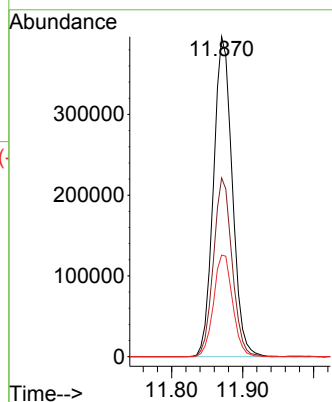
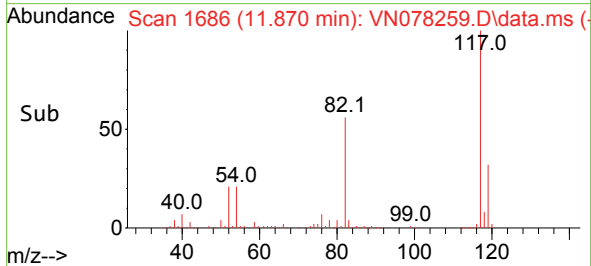


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

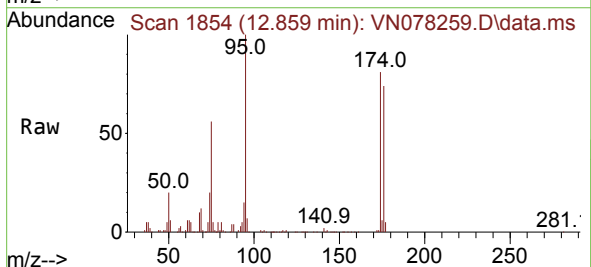
Instrument :
MSVOA_N
ClientSampleId :



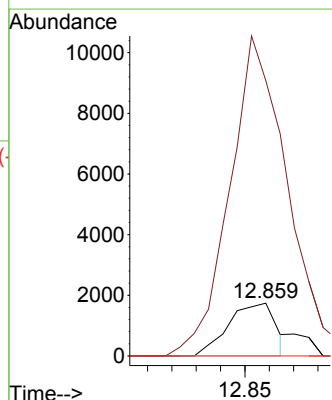
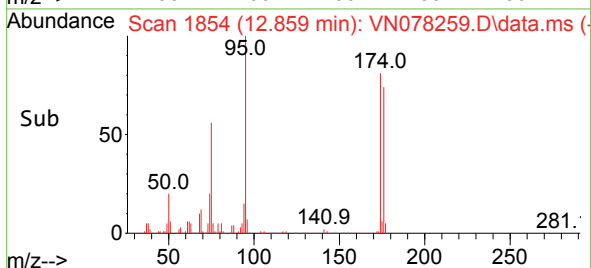
Tgt Ion:117 Resp: 726254
Ion Ratio Lower Upper
117 100
82 55.9 44.0 66.0
119 31.8 25.6 38.4

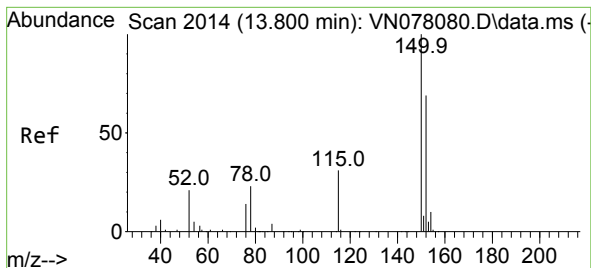


#71
Bromoform
Concen: 0.636 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53



Tgt Ion:173 Resp: 2348
Ion Ratio Lower Upper
173 100
175 612.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

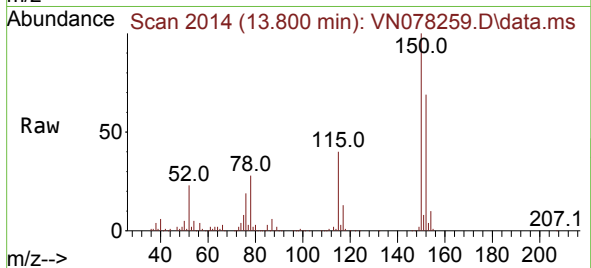
Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

Instrument :

MSVOA_N

ClientSampleId :



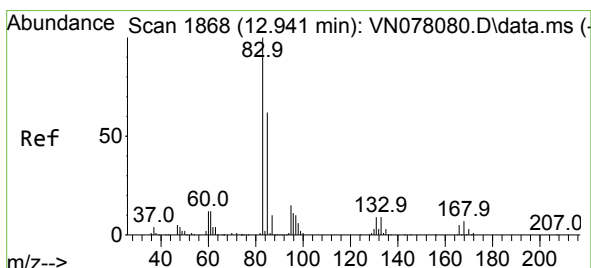
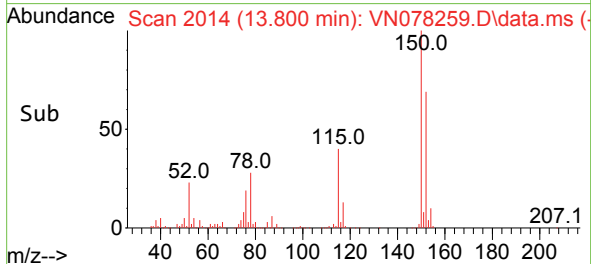
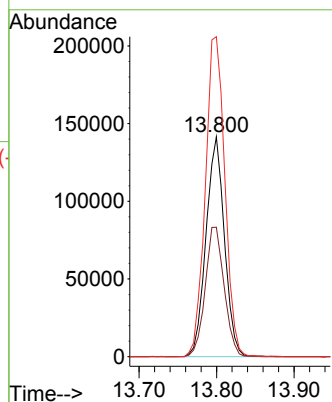
Tgt Ion:152 Resp: 233550

Ion Ratio Lower Upper

152 100

115 60.7 32.3 96.8

150 154.1 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.941 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VN078259.D

Acq: 16 Jun 2023 14:53

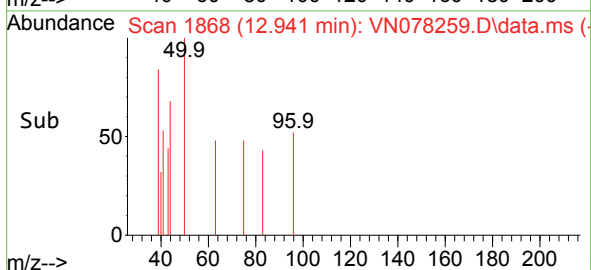
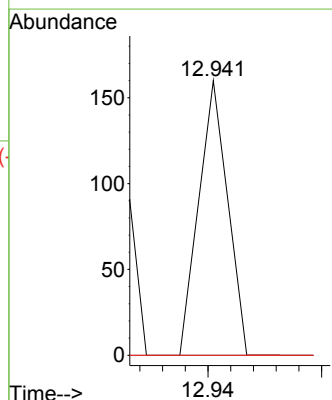
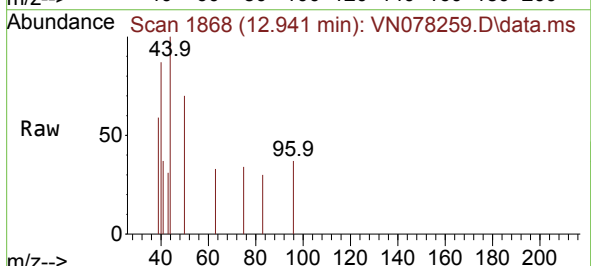
Tgt Ion: 83 Resp: 56

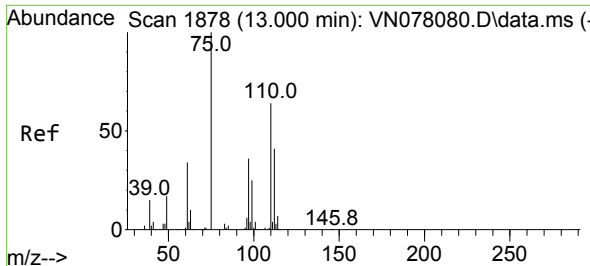
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#

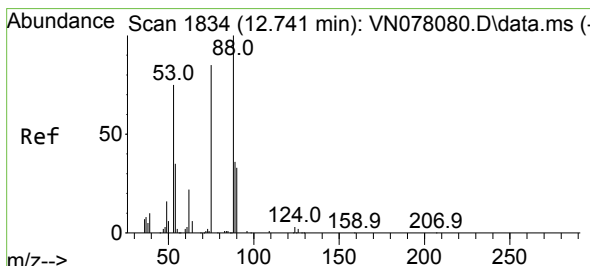
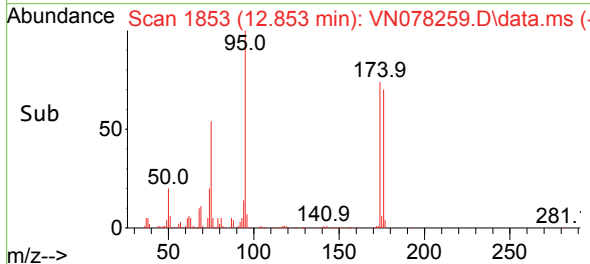
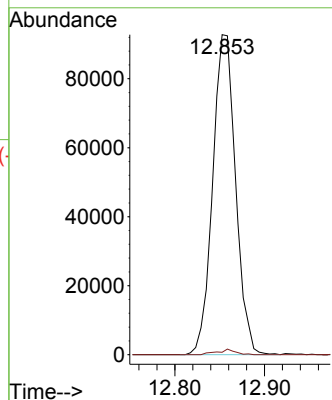
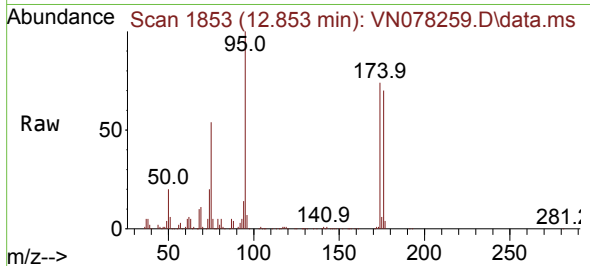




#76
1,2,3-Trichloropropane
Concen: 29.827 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 164682
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.638 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078259.D
Acq: 16 Jun 2023 14:53

Tgt Ion: 75 Resp: 164682
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

